AMENDMENTS TO THE CLAIMS

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Applicant submits below a complete listing of the current claims, including markedup claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing. This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of the Claims

- 1. (Currently Amended) A method for providing access over a network to data and services available within a collaborative computer system, the collaborative system comprising a plurality of collaborative clients, each collaborative client maintaining collaborative data based on user interactions with the collaborative system, the access being provided in response to a request message from a non-collaborative non-native client the non-native client accessing the collaborative data other than through the collaborative system, the request containing information identifying the non-collaborative non-native client and the method comprising:
- a) receiving the request message in a server connected to the non-collaborative non-native client, extracting from the request message the information identifying the non-collaborative non-native client and modifying the request message by replacing the information identifying the non-collaborative client with information identifying a queue in the server;
- b) sending the modified request message to a collaborative client of the plurality of collaborative clients via the network, wherein the request message specifies collaborative data to update or return-collaborative data, and the collaborative client provides a response message based on the request message;
- c) sending the response message to the server queue identified in the modified request message, and
- d) using the information in the server identifying the non-collaborative non-native client to forward the response message from the server queue to the non-collaborative client.
 - 2. (Previously Presented) The method of claim 1 further comprising:

before step (a) is performed, the collaborative client publishing a convenient (e) name associated with at least a portion of the data and services available within the collaborative computer system.

3. (Previously Presented) The method of claim 2 wherein the request message includes the convenient name and step (a) comprises:

(a1) extracting from the request message the convenient name; and

(a2) using the convenient name to retrieve information identifying a location of the collaborative client that can provide the at least a portion of the data and services.

4. (Currently Amended) The method of claim [[1]] 2 wherein step (b) comprises:

> (b1) sending the modified request message directly to the collaborative client when the collaborative client is connected to the network; and

> sending the modified request message to a relay server when the (b2)collaborative client is not connected to the network.

5. (Currently Amended) The method of claim 4 wherein the server is part of the relay server that connects the non-collaborative non-native client to the network.

6. (Currently Amended) The method of claim [[1]] 4 wherein the server waits on the server queue after step (b) and wherein step (d) further comprises:

(d1) forwarding the response message from the server queue to the non collaborative non-native client when the response message is received in the server queue.

7. (Currently Amended) The method of claim [[1]] 4 wherein the server does not wait for a response in step (b) and wherein step (d) is performed in response to a method call by the non-collaborative non-native client.

8. (Currently Amended) The method of claim 7 wherein the request message contains a unique request identifier and wherein the response message returns the unique request identifier to the non-collaborative non-native client and the non-collaborative non<u>native</u> client compares the request identifier sent in the request message with the request identifier in the response message to determine if the response is associated with the request.

- 9. (Currently Amended) The method of claim [[1]] 4 further comprising:
- (e) subscribing to an event service at the collaborative client indicating a request for notification of selected actions in the collaborative system; and
- (f) the collaborative client placing event messages in the server queue when a selected action occurs.
- 10. (Currently Amended) The method of claim [[1]] 9 wherein the request and the response messages have a same protocol.
- 11. (Previously Presented) The method of claim 10 wherein the protocol is the Simple Object Access Protocol.
- 12. (Currently Amended) Apparatus for providing access over a network to data and services available within a collaborative computer system, the collaborative system comprising a plurality of collaborative clients, each collaborative client maintaining collaborative data based on user interactions with the collaborative system, the access being provided in response to a request message from an external a non collaborative client, the external client being external to the collaborative system, and the request containing information identifying the non-collaborative client and the apparatus comprising:
- a server connected to the non collaborative external client, including means for receiving the request message, means for extracting from the request message the information identifying the non collaborative external client and means for modifying the request message by replacing the information identifying the non collaborative external client with information identifying a queue in the server;
- a first communication mechanism for sending the modified request message to a collaborative client of the plurality of collaborative clients via the network, wherein the collaborative client provides a response message containing the data and services requested;
- a second communication mechanism for storing the response message in the server queue identified in the modified request message, and

a contact mechanism responsive to the information in the server identifying the non-collaborative external client for forwarding the response message from the server queue to the non-collaborative external client.

13. (Currently Amended) The apparatus of claim 12 further comprising means

operable by the collaborative client for publishing a convenient name associated with selected

data and services available in the collaborative computer system before the non-collaborative

external client generates the request message.

14. (Original) The apparatus of claim 13 wherein the request message includes

the convenient name and wherein the receiving means in the server comprises a mechanism

for extracting from the request message the convenient name and a name service that is

responsive to the convenient name for retrieving information identifying the location of the

collaborative client that can provide the selected data and services.

15. (Original) The apparatus of claim 12 wherein the first communication

mechanism comprises:

means for sending the modified request message directly to the collaborative client

when the collaborative client is connected to the network; and

means for sending the modified request message to a relay server when the

collaborative client is not connected to the network.

16. (Currently Amended) The apparatus of claim 15 wherein the server is part of

the relay server that connects the non collaborative external client to the network.

17. (Currently Amended) The apparatus of claim 12 wherein the server waits on

the server queue after the first communication mechanism sends the request message to the

collaborative client and wherein the contact mechanism comprises means for forwarding the

response message from the server queue to the non collaborative external client when the

response message is received in the server queue.

18. (Currently Amended) The apparatus of claim 12 wherein the server does not

wait for a response in after the first communication mechanism sends the request message to

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the collaborative client and wherein the contact mechanism sends forwarding the response

message from the server queue to the non collaborative client in response to a method call by

the non-collaborative client.

19. (Currently Amended) The apparatus of claim 18 wherein the request message

contains a unique request identifier and wherein the response message returns the unique

request identifier to the non collaborative external client and the non collaborative external

client comprises a comparator that compares the request identifier sent in the request message

with the request identifier in the response message to determine if the response is associated

with the request.

20. (Currently Amended) The apparatus of claim 12 further comprising:

a subscription service responsive to a request from the non collaborative external

client for subscribing to an event service at the collaborative client indicating a request for

notification of selected actions in the collaborative system; and

an event mechanism in the collaborative client that places event messages in the

server queue when a selected action occurs.

21. (Original) The apparatus of claim 12 wherein the request and the response

messages have the same protocol.

22. (Original) The method of claim 21 wherein the protocol is the Simple Object

Access Protocol.

23. (Currently Amended) A computer program product for providing access over

a network to data and services available within a collaborative computer system, the

collaborative system comprising a plurality of collaborative clients, each collaborative client

maintaining collaborative data based on user interactions with the collaborative system, the

access being provided in response to a request message from a non-collaborative non-native

client the non-native client accessing the collaborative data other than through the

collaborative system, the request containing information identifying the non-collaborative

client and the computer program product comprising a tangible computer usable medium

having computer readable program code thereon, including:

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program code for receiving the request message in a server connected to the noncollaborative non-native client, extracting from the request message the information
identifying the non-collaborative non-native client and modifying the request message by
replacing the information identifying the non-collaborative non-native client with information
identifying a queue in the server;

program code for sending the modified request message to a collaborative client in the collaborative computer system via the network, wherein the collaborative client provides a response message containing the data and services requested from the collaborative system;

program code for sending the response message to the server queue identified in the modified request message, and

program code for using the information in the server identifying the non-collaborative non-native client to forward the response message from the server queue to the non-collaborative non-native client.

24. (Canceled)